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DIALOG(R)File 351:Derwent WPI

011752239 **Image available**
WPI Acc No: 1998-169149/199815
XRAM Acc No: C98-054253

Telomerase protein of higher animals and humans and gene encoding it - for use in diagnosis of cancer, screening of telomerase inhibitors and elucidation of biological control mechanisms

Patent Assignee: MITSUBISHI CHEM CORP (MITU)
Inventor: FUJINO Y; HARADA N; ISHIKAWA F; NAKAMURA H; TAKAHASHI K
Number of Countries: 020 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9807838	A1	19980226	WO 97JP2904	A	19970821	199815	B
JP 10510587	X	19990921	WO 97JP2904	A	19970821	199950	
			JP 98510587	A	19970821		

Priority Applications (No Type Date): JP 9731807 A 19970217; JP 96219761 A 19960821; JP 9718878 A 19970131
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9807838	A1	J	106	C12N-009/12	

Designated States (National): CA JP US
Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

JP 10510587	X		C12N-009/12	Based on patent WO 9807838

Abstract (Basic): WO 9807838 A

Polypeptide which forms a protein component of telomerase of higher animals (sequence of rat and human derived polypeptides are given in the specification) and polypeptides derived from it by addition, deletion and/or substitution of at least 1 amino acid residue, are new.

Also claimed are:
(1) DNA or RNA coding for the polypeptide;
(2) vectors containing the DNA;
(3) transformant hosts containing the vector;
(4) the preparation of the polypeptide by culture of the transformant, and
(5) antibodies recognising the polypeptide or fragments of it.

USE - DNA or RNA coding for the polypeptide or its fragments can be used as a nucleotide probe for the detection of cancer cells and for diagnosis of cancer.

Potential telomerase inhibitors can be screened by measuring their effect on the assay of the active form in cells or tissues. The polypeptide and DNA coding for it can be used in the elucidation of biological control mechanisms of, e.g. cell growth or ageing and of the mechanisms of cancer development.

Dwg.1/4

Title Terms: PROTEIN; HIGH; ANIMAL; HUMAN; GENE; ENCODE; DIAGNOSE; CANCER; SCREEN; INHIBIT; BIOLOGICAL; CONTROL; MECHANISM
Derwent Class: B04; D16
International Patent Class (Main): C12N-009/12
International Patent Class (Additional): C12N-015/54; C12Q-001/48
File Segment: CPI
Manual Codes (CPI/A-N): B04-E02E; B04-E03E; B04-E08; B04-F0100E; B04-G03; B04-L01; B04-L0100E; B12-K04A1; B12-K04E; D05-A02; D05-H09; D05-H11A; D05-H12A; D05-H12D1; D05-H12E; D05-H14B; D05-H16A; D05-H17A5
Chemical Fragment Codes (M1):
01 M423 M710 M903 Q233 V752 V802 V812
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DIALOG(R)File 351:Derwent WPI

012275170
WPI Acc No: 1999-081276/199907
XRAM Acc No: C99-024522
New catalytically active subunit of human telomerase - used in the modulation of telomerase activity, particularly for treating cancer and ageing
Patent Assignee: BAYER AG (FARB)
Inventor: HAGEN G; SIEGMUND H; WEICHEL W; WICK M; ZUBOV D
Number of Countries: 083 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9859040	A2	19981230	WO 98EP3468	A	19980609	199907	B
AU 9882149	A	19990104	AU 9882149	A	19980609	199921	
DE 19816496	A1	19991021	DE 1016496	A	19980414	199950	
EP 990037	A2	20000405	EP 98932142	A	19980609	200021	
			WO 98EP3468	A	19980609		

Priority Applications (No Type Date): DE 1016496 A 19980414; DE 1026329 A 19970620; DE 1013274 A 19980326
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9859040	A2	G	76	C12N-009/00	

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

EP 990037	A2	G	C12N-015/54	Based on patent WO 9859040

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

AU 9882149	A	C12N-009/00	Based on patent WO 9859040
DE 19816496	A1	C12N-009/12	

Abstract (Basic): WO 9859040 A
Catalytically active human telomerase subunit (I), its functional equivalents, variants and catalytically active fragments are new. Also new are: (1) nucleic acid (II) encoding (I) and its functional equivalents; (2) antisense nucleic acid (IIa) that binds to (II); (3) antibodies (Ab) against (I), optionally labelled; (4) vectors containing (II); and (5) microorganisms containing this vector.
USE - Hosts of (5) are used to produce recombinant (I) which is used: (a) in screening assays to identify modulators of telomerase; and (b) to treat or inhibit cellular disorders, death, defects and/or other pathological processes involving telomerase, particularly cancer and ageing (also suitable for this are agents that stimulate, inhibit or mimic the activity of (I)). (IIa) inhibit telomerase action (by binding to specific mRNA), particularly in neoplastic cells and may be expressed in vivo . Ab, and fragments of (II), used as probes or primers, are used to diagnose telomerase-related conditions (especially neoplasia) by: (i) detecting abnormal levels of (I) in body fluids or tissues; or (ii) by measuring the amount of (I)-encoding nucleic acid.
ADVANTAGE - Expression of (I)-related mRNA is confined to tumour cells, in contrast to the ubiquitous expression of the telomerase RNA subunit.
Dwg.0/9

Title Terms: NEW; CATALYST; ACTIVE; HUMAN; MODULATE; ACTIVE; TREAT; CANCER; AGE
Derwent Class: B04; D16
International Patent Class (Main): C12N-009/00; C12N-009/12; C12N-015/54
International Patent Class (Additional): A61K-031/70; A61K-038/45; A61K-039/395; C07H-021/04; C07K-016/40; C12N-001/00; C12N-015/11; C12N-015/63; C12Q-001/48; C12Q-001/68; G01N-033/573
File Segment: CPI
Manual Codes (CPI/A-N): B04-E01; B04-E08; B04-F10; B04-G01; B04-L08; B11-C07A; B12-K04; D05-H09; D05-H11; D05-H12A; D05-H12D1; D05-H12D2; D05-H12D4; D05-H12E; D05-H14A1; D05-H14A2; D05-H14B; D05-H16A; D05-H17A3
Chemical Fragment Codes (M1):
01 M423 M710 M903 N134 N135 P633 Q233 V500 V540 V600 V611 V753 V802 V810

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